KING PIGEON

GSM House Alarm System

S110 User Manual

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Website: Http://www.GSMalarmsystem.com

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1. Brief introduction

The GSM Alarm System S110 is a new security protection solution special for home, house and office and other applications. It based on Wireless GSM Communication network, integrated Lcd Menu display and Computer technology. When any sensor activated, it will Call & Send SMS to owner's telephone immediately.

The GSM Alarm System S110 with user friendly design idea, all operations and settings are visual and intuitive!.

What you need is a SIMCard which supports Call ID function.

2.Safety Directions

Safe Startup

Do not use GSM Alarm System when using GSM equipment is prohibited or might bring disturbance or danger.

Interference

All wireless equipment might interfere network signals of GSM Alarm System and influences its performance.

Avoid Use at Gas Station

Do not use GSM Alarm System at a gas station. Power off GSM Alarm System it near fuels or chemicals.

Power it off near Blasting Places

Please follow relevant restrictive regulations. Avoid using the device in blasting places.

Reasonable Use

Please install the product at suitable places as described in the product documentation. Avoid signal screening by covering the

mainframe.

Use Qualified Maintenance Service

Maintenance can be carried out only by qualified maintainer.

Waterproofness

The product is not waterproof. Please install it at dry places and keep it dry.

3. Standard Packing List

Control Unit X1
Wireless Magnetic Door Sensor X1
Wireless Remote Controls X 2
Wireless PIR Motion Sensor X1
Wired Strobe Siren (110dB) X1
Regulated 12VDC Power Supply X1
User Manual X1
GSM Antenna X1

Optional Accessories: (Wireless Sensors or Wired Sensors)

PIR Motion Sensor, Glass Break Sensor, Magnetic Window Sensor, Magnetic Steel Scrolling Door Sensor, Temperature Sensor, Photoelectric Beams, etc.

4. Physical Layout

4.1 Control Unit physical layout

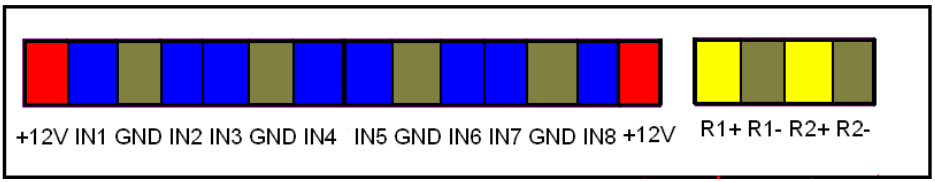
Tips!

1) *In order to forbidden the intruder power off the alarm system, we equipped the power switch inside, it is nearby the SIMCard socket, please pay attention to it, and don't tell others of this. Turn it towards inside is off, turn it towards outside is on.*
2) *We reserved the plastics of the output relay and Wired sensors in the back cover of the panel. Because of some of the users needn't this function. If you want to use the output relay and wired sensors, please remove the plastics carefully. Then you can see the connectors inside.*

Interface 1 Description

Power	External Power Connector, Connect to 2A@12V DC power through AC/DC Adaptor.
Siren	Will start for 60seconds when alarm. The siren or strobe siren should be <12V DC.
GSM ANT	Connect the GSM ANT, if the GSM signal is not strong, then please change the 3dB GSM ANT.
Microphone	One sensitive Microphone built inside.

Interface 2 Description

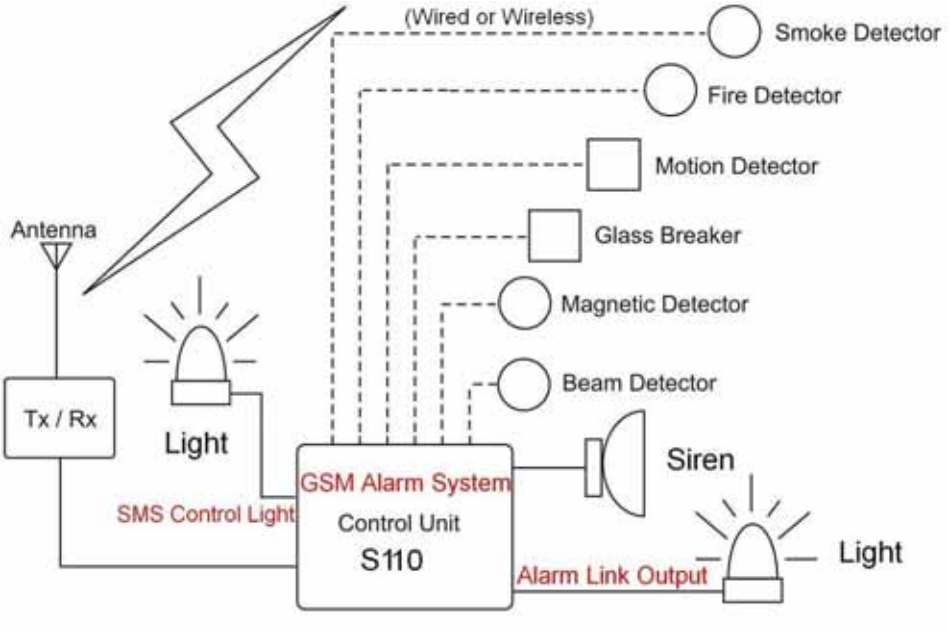


+12V	+12VDC@1A power output for wired detectors.
IN1	Digital input 1, connect to one wire of the wired Detector.
GND	Ground point, connect to another wire of the wired Detector or -12VDC.
IN2	Digital input 2, connect to one wire of the wired Detector.
IN3	Digital input 3, connect to one wire of the wired Detector.

GND	Ground point, connect to another wire of the wired Detector.
IN4	Digital input 4, connect to one wire of the wired Detector.
IN5	Digital input 5, connect to one wire of the wired Detector.
GND	Ground point, connect to another wire of the wired Detector.
IN6	Digital input 6, connect to one wire of the wired Detector.
IN7	Digital input7, connect to another wire of the wired Detector.
GND	Ground point, connect to another wire of the wired Detector or -12VDC.
IN8	Digital input 8, connect to one wire of the wired Detector.
+12V	+12VDC@1A power output for wired detectors.
R1+	Link-Output Relay, when the system alarm will close 4minutes. (Rated Voltage: 3A/240VAC), this relay can connect to any other lights or CCTV system as a switch.
R1-	Built in 240VAC@3A rated relay output, connect to the device negative electrode.
R2+	Independent Output Relay, Can switch on or off by SMS Commands. (Rated Voltage: 3A/240VAC), this relay is very useful to switch on light when you can not come back in the evening. Then some hours you can switch off it.
R2-	Built in 240VAC@3A rated relay output, connect to the device negative electrode.

4.2 Working Principle Drawing

The S110 works with wireless detectors or Wired detectors. It can switch on or off one appliance by SMS command. Please see below:



5. Features

5.1 The advantages of the GSM Alarm System S110

1) Two-way Voice communication or wiretap are available;
2) LCD displays the entire setup menu;
3) Armed, Partial Armed(At House or Stay), Disarmed, SOS are available;
4) Armed delay, alarm delay, siren work or not, more other functions are Programmable by user;
5) Watchdog,24Hours Zone, SOS zone are available;
6) Using ICON to display armed, Partial Armed, Disarmed, Power status, Siren status and GSM Signal status.
7) Auto-detect and report, GSM Signal Jammer alarm, SMS Switch is available.
8) User friendly Icons for LED indicators, LCD and functional Buttons.

5.2 Functions & Features of the GSM Alarm System

1) GSM Frequency: Dual-Band(900/1800MHz), Quad-Band is optional(850/900/1800/1900Mhz) ;
2) Supports armed, Partial armed(At House or Stay) or disarmed, SOS by remote control or mainframe keyboard;
3) Supports armed, disarmed, inquiry mainframe status, switch on or off relay output by SMS Commands;
4) Automatically send SMS Alert and dial to the pre-set cell phone when any sensor had been triggered;
5) Equips with 16 Wireless Zones and 8 Wired zones, zone attribute (Normal/At House or Stay mode) and Zone Name is editable;
6) 3 X 24-Hour zones for smoke and gas leakage sensor,1XWatchdog zone for monitoring elder or child, 1XSOS zone for emergency help;
7) Supports 3 SMS Alert Numbers and 5 Calling alert numbers and 100 Alarm Records for owner review;
8) Supports Timer for automatically arm or disarm the system;
9) Supports armed delay to give enough time to you go out the home, the delay time is editable by user;
10) Equips with 1 Alarm-Link output relay, once the system triggered, the output will switch on for 4minutes;
11) Equips with 1 seperate output relay, it can be switch on or off by SMS Commands. This is very useful for remote switch on light or off while you’re in another city in the night;
12) The Keypad can use as a dialer, the functions like the Cell phone;
13) The external power failure & recovery alert function is optional ;
14) Supports wiretap through the internal microphone;
15) Supports internal Speaker to special user for two-way voice communication;
16) It is Compatible with PT2262/2264 and PT2242 wireless IC;

17) Standby internal rechargeable battery which can last 12 hours;
18) Based on the GSM communication network and Operation Menu Display technology, apply to wide range situations.

6. Settings

Tips!

1) *Please insert the SIMCard firstly, and install the GSM Antenna then power on it. Also, you can insert the SIMCard after you setup.*
2) *All the wireless sensors in the standard package we have assigned to the mainframe already. Needn't to learn it again.*
3) *After you power on the mainframe, the mainframe will auto detect and display the process. It will detect the 8 wired input current connection status and display on the LCD with 8 characters. **O** stands for Open, **C** stands for Close, **L** stands for with2.2K EOL, **E** Stands for not includes the before 3 status. If it with SIMCard, it will register the GSM Network and display the GSM Signal ICON in the left corner of the LCD.*
4) *All of the setup can be done by the LCD except modify the Zone name, if you need to modify the zone name, please see the command list in the related chapter.*
5) *Only disarm by keyboard and modify settings requires password, the other operation needn't password. The default password is 1234. Enter password then press Enter button to enter the system.*
6) *In standby mode, press #3#6, following UP button. The system will recovery to factory default settings, the password will be 1234. But the registered wireless sensors and the Wired type will remain.*
7) *Two way communication:*

In standby mode, dial the telephone number, following the *, the system will dial out; While incoming call, press the* *Button to answer the incoming. Please note: if the income calling is from the preset number (Includes SMS Alert number and Auto-dial numbers), then before 6 tones, if answered it, will create two way voice communications. After 6 tones, will be entering into wiretap status. The user can listen in the alarm around sounds, Max. time is 10Minutes. If the income calling is not from the preset alarm number, after 6 tones, if hasn't been answered, will hang up.*

8) If you want to test the two way voice communication, please make sure the other phone is far from the S110, at least 500meters. Otherwise, the near-cross will make lots of noise interference.

6.1 Key-Function Descriptions.

6.1.1 Led indicator Description

The S110 uses the icons to stand for the function, it is visual and intuitive to users.

: Stay Mode indicator, on is in stay mode;

: Arm Mode indicator, on is in arm mode, off is in disarm mode;

: Alarm Indicator, on is alarming, off is normally;

: GSM Module indicator, registering will quickly flick, registered successful will slowly flick.

: Alarm link output indicator, when alarm, will turn on and last 4minutes, means the alarm link output relay closing.

: Separate output relay indicator, when the independent output relay closed, it will be on; when the independent output relay opened, will be off.

6.1.2 LCD ICONS Description

The S110 uses the icons to descript the present status; it will be more user friendly.

: *Enabled the Timer to arm and disarm function; otherwise, will not display it.*

: *Timer to Arm, has setup a time point to enter armed mode directly.*

: *Timer to disarm. Has setup a time point to enter disarmed mode directly.*

: *Enabled the Watchdog zone. In the fixed time range if the sensors in the watchdog zone hasn't been triggered, will alarm.*

: *Enabled the system condition report function. Will automatically send system condition to the user by SMS, otherwise, it will not display.*

6.1.3 Keyboard functions

The S110 uses the icons to mark the buttons; it will be more user friendly to user.

: Enter button, dial out and answer incoming.

: Hang up the incoming, Exit, and Backspace button.

: Up towards button.

: Down towards button.

: Turn Left button, in special menu need it to choose the option.

Disarm Button.

Arm Button

At House, Stay mode button.

SOS, Panic Button.

6.2 Main Menu

In standby mode, press the button, you can see the Menu.

1. View	---To check the settings and event records of the system
2. Setup	---To setup the system functions, requires password, the default password is 1234.

6.2.1 View

1. Alarm Records	---To check the alarm records, up to 100 event records will be saved.
2.Timers	---To check the Timer you have setup.
3.RF Zone Name	---To check the SMS Alert Contents of the Wireless Related Zones.
4.SMS Phone No.	---To check the SMS Alert Numbers
5.Auto-dial No.	---To check the Auto-dial telephone Numbers
6. Report Time	---To check the report time.
7.RF Code Query	---To check the RF sensor wireless code.
8.Wired Zone Name	---To check the SMS Alert Contents of the Wired Related Zones.

Notice:

1) The RF Code Query function is for check the wireless sensor transmission. You can enter this submenu, then triggered the wireless sensor, if in the LCD can display some codes, means the wireless sensor can transmit wireless signal.

6.2.2 Setup

1. Add/Del RF Parts	---To add or remove wireless sensors or remote controls and edit their attributes.
2.Wired Zones Set	---To setup Wired Zone parameters of the system.
3.Basic Setting	---To setup basic parameters of the system.
4. Advanced Setting	---To setup the advanced parameters of the

6.2.2.1 Add/Del RF Parts

1.Edit RF Zone	---To setup the zone's attribute and add new wireless sensors to specificities zone.
2.Edit Remote Ctrl	---To add new remote controls.
3. Remove All	---To remove all registered wireless sensors and remote controls.

Notice:

1) *Zones' Attribute definition:*

Zones' Attribute	Definition
Normal	*The sensors with this type triggered will alarm in Armed mode and not alarm in disarmed mode.*
Stay	*In Stay mode, the sensors with Stay type triggered will alarm, the sensors with Normal type triggered will not alarm.*
24-Hour Zone	*In any mode, the sensors with this type triggered will alarm.*
Watchdog	*In the starting time point and ending time point, the sensors with this type triggered will not alarm, if the sensor hasn't been triggered, will make alarm.*
SOS Help!	*In any mode, the sensors with this type triggered will alarm but not drive the siren.*
Alarm Action: *when Alarm occurrence, the system will Automatically dial the Pre-set Auto-Dial Tel. Numbers for 3 times one by one, and Send SMS to the Pre-set SMS Alert Numbers, in the meantime, will drive the siren for 60seconds and close the link-Output relay for 4 minutes.*	

2) *After you enter the menu, the attribute of the zone will be displayed in the LCD, if this zone has been assigned wireless sensor, will display "V". If hasn't been assigned wireless sensor, means this zone is empty, you can assign new wireless sensor to this zone. Press Up or down button on the keyboard to check the other Zones. Press Enter to edit it. After you pressed the Enter button, you can select the zone attribute, and then press Enter, you can see "Turn on the device" or "Please trigger the new wireless sensor". Then following the instruction to add the new wireless sensor to the S110. For Remote control, it will display VVVV if the unit has been assigned remote control. Both of them you can press Enter to re-assign new wireless sensor or remote control to replace the existence one.*

3) *In the Edit RF Parts you can edit the attribute of the sensor as Normal or Stay Type. If the system is under Stay Mode (Also said At House or Partial Armed), the sensor set*

as Normal triggered will not alarm, the sensor set as Stay triggered will Alarm. If the system is under Armed Mode, then all RF sensors triggered, will alarm. This is very important to remember the sensor types of the system. This function is very useful when you at house and need some sensors in working status (E.g.: the sensor installed outer and gas and smoke detectors, etc.) and some sensors indoor not in working status (e.g.: the sensors installed in the living room, bed room, etc.).

4) *The S110 can accept total 16 wireless sensors to 16 wireless zones; each zone can be assigned one wireless sensor, and renamed it by SMS Command. And 5 remote controls.*

5) *Wireless Zone Serial Number, Default Zone Name and Zone Attributes Table.*

Zone SN.	Default Zone Name	Default Zone Attribute
01	Intrusion from Entry Door	Normal
02	Intrusion from Living Room	Normal
03	Intrusion from Bed Room 1	Normal
04	Intrusion from Bed Room 2	Normal
05	Intrusion from Bed Room 3	Normal
06	Intrusion from Front Balcony	Normal
07	Intrusion from Behind Balcony	Normal
08	Intrusion from 1F Window	Normal
09	Intrusion from 2F Window	Normal
10	Intrusion from Left Fence	Normal
11	Intrusion from Right Fence	Normal
12	Medical Button Alarm	24-Hour zones, This attribute can not be modified. In arm or disarm or stay mode, once the sensor in these zones triggered will alarm.
13	Gas Leakage Alarm	
14	Smoke Fire Alarm	
15	Watchdog alarm	Watchdog Zone, the attribute can not be modified. In arm or disarm or stay mode, once the sensor in this zone triggered in the preset time, will not alarm, if the sensor hasn't been triggered in the preset time, will alarm.
16	SOS Help!	SOS zone, The attribute can not be modified. In arm or disarm or stay mode, once the sensor in these

		zones triggered will alarm immediately. not drive the siren.
Notice: The Additional Panic Button, and the SOS button on the Keyboard and remote control is the same attribute with the SOS zone. If the Additional Panic Button assigned in 24-Hour Zones, once triggered, the alarm action will be the same as SOS zone, not start the siren.		

6.2.2.2 Wired Zones Set

1.Nodes Type ---To setup the wired inputs type.

2.Zones Attributes ---To setup the wired input's attribute.

Notice:

1) *The Nodes Type NC,NO,EOL should reference the wired input sensor type. The Default is NC and we short all of the inputs by wires, if you want to contact wired sensors, then please replace the short wires by wired sensors directly. The no-use input, please remain them in short-circuited by wires. Please see* **8.4 Install the Wired Sensors and Electricity equipments**
2) *Zones' Attribute definition of the wired zone is the same as the wireless zone.*
3) *The S110 can accept total 8 wired sensors to 8 wired zones; each zone can be assigned one wired sensor, and renamed it by SMS Command.*
4) *Wired Zone Serial Number, Default Zone Name and Zone Attributes Table.*

Zone SN.	*Default Zone Name*	*Default Zone Attribute*
01	Outer Door Opened	Normal
02	Intrusion from Left Fence	Normal
03	Intrusion from Right Fence	Normal
04	Intrusion from Front Fence	Normal
05	Intrusion from Guarden Fence	Normal
06	24Hours zone alarm	24-Hour zones, This attribute can not be modified. In arm or disarm or stay mode, once the sensor in these zones triggered will alarm immediately.
07	24Hours zone alarm	
08	SOS Help!	SOS zone, The attribute can not be modified. In arm or disarm or stay mode, once the sensor in these zones triggered will alarm immediately. But not drive the siren.

6.2.2.3 Basic Setting

1.SMS Phone No.	---To setup the SMS Alert Number, must be cell phone numbers, total 3.
2. Auto-dial Tel No.	---To setup the Auto-dial telephone number, total is 5.
3. Time & Date	---To setup the time and date information. The Format is Month-Date-Year. Press Up/Down to setup each item, press * to move to next item.
4. Sound Alarm	---Switch on or off the siren when Alarm occurrence.
5. Report Time Gap	---Setup the Report time gap, Range: 0~240Hours.deflaut is 0, will not report.
6. Power Failure Alert	---Enable or Disable the alert function while the AC power is failure more than 30 minutes.
7. Arm Delay Time	---Setup the delay time after armed the system by remote control or keyboard. Optional: 0S, 20S, 30S, 60S, 90S. Default is 30S.
8. Alarm delay Time	---Setup the delay time after any sensor triggered. Optional: 0S, 20S, 30S, 60S, 90S. Default is 20S.

Notice:

1) *The SMS Alert number is for receiving the alarm SMS Message. The Auto-Dial Telephone number is for receiving the calling. Please help to try adding country code or removing country code when you can not receive the call or SMS. Because of different GSM Operator with different communication protocols. Our system is with the international communications protocols.*
2) *The Auto-dial Tel. Number can dial to the S110, 6 tones later, can wiretap the system site. Before 6 tones, if somebody answers the calling, then can create two-way voice communication. The other telephone number can call in the S110, if nobody answer the calling, then can not wiretap the system site, if somebody answers the calling, then can create two-way voice communication.*

For example:

In China, the country code is **0086**, please note, do not write **+86**.

The user cell phone number is **13570810254** and has been assigned as a SMS Alert number, the simcard number in the panel is **13512345678**.

Problem 1: Alarm but the user hasn't received the SMS Alert.

Solution: Please plus the country code while you setup the 13570810254 as SMS Alert number, means setup **008613570810254** to instead of the **13570810254**.

Problem 2: The user number can receive the SMS Alert message from alarm panel, but the alarm panel can not receive the commands from the user number.

Solution: Please add country code to the simcard number in the alarm panel. Means send sms commands to **008613512345678** to instead of **13512345678**.

Solution 3: When you use cell phone dial another one, what number it will be displayed then you can set the displayed number as dial numbers; when you use cell phone send SMS to another cell phone, what number it will be displayed then you can set the displayed number as SMS Alert number, just use the 00 to replace the "+".

3) *If Switch off the siren, then all alarm raised will not drive the siren, if switch on the siren, then when the system alarm will drive the siren for 1 minute except the SOS help caused. Default is Switch on.*
4) *If setup the Report Time Gap, the system will periodically send "GSM Alarm System in good working condition" to the first SMS Alert number. This is very useful for long time use the system. Default is 0. Means will not report the system condition.*
5) *If enable the power failure alert function, the system will send SMS "AC Power Failed 30Min." to the first SMS Alert numbers after the AC power failure 30minutes, if the power is recovery then will send SMS "AC Power is OK.". Default is disabled.*
6) *There's no delay for Stay Mode.*

6.2.2.4 Advanced Setting

1.Edit Timer	---To setup the starting time to arm and the Ending time to disarm.
2. Watchdog Timer	---To setup the starting and ending time to work.
3. RCO Alert	---To setup the remote control operation report function.
4. GSM Jammer Alert	---To setup the GSM Jammer Alert function.
5. Modify Password	---Modify the system password.
6. Default Set	--- Restore the system settings to factory defaults. All of the remote controls and wireless sensors should be re-assigned again.

Notice:

1) *The watchdog is special for elder or child or* on-duty personnel*, in the period (Starting time point to Ending time point) if this sensor hasn't been triggered, the system will alarm. This is very useful to monitor the elder or child goes out the bedroom or enters the kitchen to eat something. Or monitor the on-duty personnel in the polling period have gone to on-site inspection.*
2) *If enable the RCO alert function, then when use any remote control which has been registered to the system to arm or disarm or stay operation, the system will send SMS to the first SMS number.*
3) *If enable the GSM Jammer Alert function, when the GSM Signal is 0 for more than 90s, the system will drive the siren for 60seconds and the link-output relay will close 4 minutes.*

6.3 Modify the SMS Alert Content of the Zone (Zone or Sensor Name)

The S110 accept SMS Command to modify the SMS Alert Content of the zone.

For Wireless Zone Name, the format is: Password+#+M+Zone Serial Number+#+New Zone Name+#, the Max. Character for the zone name is 32. The Zone Serial Number is 01~16 corresponding to the LCD Menu

and 6.2.2.1 table. If setup successful, the system will return OK to confirm the operation.

*E.g.: Modify the first wireless zone name as **Front Door Opened by Intruder!** You should edit a SMS Content: **1234#M01# Front Door Opened by Intruder!#** ,the 1234 is the password. Then send it to the S110 Simcard Number.*

For Wired Zone Name, the format is: Password+#+Z+Zone Serial Number+#+New Zone Name+#, the Max. Character for the zone name is 32. The Zone Serial Number is 01~08 corresponding to the LCD Menu and 6.2.2.2 table. If setup successful, the system will return OK to confirm the operation.

*E.g.: Modify the first wired zone name as **Front Door Opened by Intruder!** You should edit a SMS Content: **1234#Z01# Front Door Opened by Intruder!#** ,the 1234 is the password. Then send it to the S110 Simcard Number.*

7. Operating Instructions

Tips!

The user can arm/disarm/Stay (Partial armed) by Remote controls, Keyboard, SMS, also, the user can cancel the alarm by Remote Controls, Keyboard, SMS to Disarm it. Another, the user can switch on or off the independent output relay by SMS Commands.

7.1 Arm or Disarm or Stay (Partial Arm, At House Arm) and Emergency Alarm by remote controls

Press the button "🔒" on the remote control or Press Arm button on the keyboard then select Arm, the Control Unit enters arm status (delay time

according to the setting), the ICON will be on. Under this status, any sensor triggered, the control unit will alarm, if answered the call, the siren will stop and can listen in the alarm area by phone.

Press the button "" on the remote control, or press Disarm button on the Keyboard then input the password, the Control Unit disarms immediately. The ICON will be off. Under this status, any sensor triggered, the control unit will not alarm. Except the sensor type is the 24-Hour Zones or Watchdog zone or SOS zone.
Press the button "" on the remote control or Press the Arm button on the keyboard then select Stay, the Control Unit enters Stay(Partial Armed) status, the ICON will be on. In this status, the sensors had been set as Stay Type triggered will alarm, but the sensors had been set as normal Type triggered will not alarm. Please see the menu of the **Edit RF Zone**.

Press Emergency button (SOS) "**!**" on the **remote control** or the control unit or Press any **Emergency button**. The Control Unit will enter emergency alarm. The siren will not sound, but will alert the pre-set phone number immediately.

7.2 SMS Commands for Arm or Disarm or Inquiry system status or switch on/off independent output relay.

The User can Arm/Disarm/Inquriysystem status/Switch on or off the independent output relay by sending SMS to the Control unit. The SMS Commands are below:

Notice:

The system will carry out the commands immediately (with no delay) after the Control Unit receive this SMS command.

7.2.1 Armed

xxxxAA
"xxxx" stands for the password (1-4 digits).
Return SMS
All Armed Mode activated.

Example
1234AA
When the Password is 1234

7.2.2 *Disarm*

xxxxBB
"xxxx" stands for the password (1-4 digits).
Return SMS
System deactivated.

Example
1111BB
When the Password is 1111

7.2.3 *Switch On the independent output relay*

xxxxCC
"xxxx" stands for the password (1-4 digits).
Return SMS
Output Relay Closed.

Example
1111CC
When the Password is 1111

7.2.4 *Switch OFF the independent output relay*

xxxxDD
"xxxx" stands for the password (1-4 digits).
Return SMS
Output Relay Opened.

Example
1111DD
When the Password is 1111

7.2.5 *Inquiry System Status*

xxxxEE

"xxxx" stands for the password (1-4 digits).

Return SMS

Armed or At House or Disarmed

AC Power is Ok or AC Power is failed

GSM Value is 17 or other value

Output Relay is Closed or

Output Relay is opened

Notice:

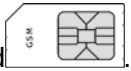
The Output relay status in the Return SMS is the independent output relay status. It is not the alarm link Output Relay Status.

8. Installation

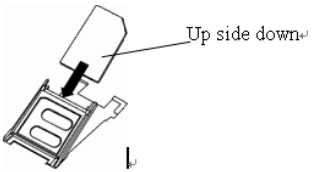
Before installing the control unit and sensors and sirens, please help to test the system firstly, including wireless sensor, power supply, gsm signal, etc.

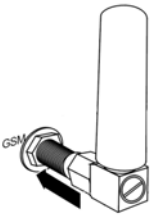
Please ensure the wireless sensors and electricity appliances from the mainframe more than 3~5m.

8.1 *Insert SIM into Control Unit and install the GSM ANT.*

In the backside of the control unit, please install the GSM SIM card 

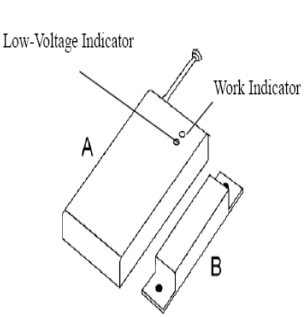
. The GSM ANT must be Vertical installation to ensure it in good working condition.

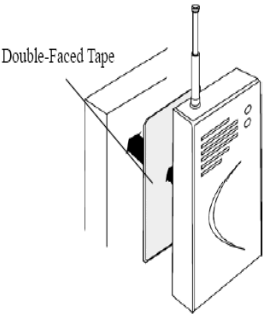




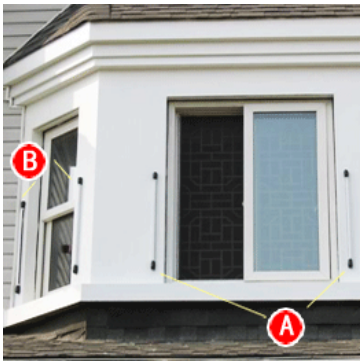
8.2 *Install the Wireless Magnetic door/window sensors*

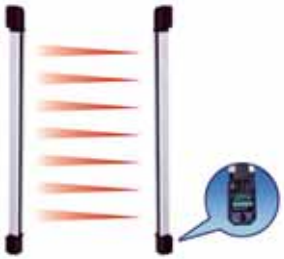
Magnetic door/window sensors signal the Control Unit when the two parts separate by more than between **1.5 to 3.0cm**.





In some circumstances an Infrared beam fence is more appropriate than magnetic sensors. i.e. veranda, picture window balcony, boundary wall e.t.c.





Wireless glass break sensor can also be used (see below)

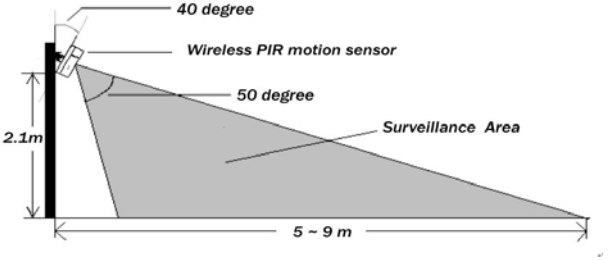
For a Scrolling Steel Door, a special Wireless Scroll Steel Door magnetic sensor must be used due to interference of the wireless signal caused by the steel door.

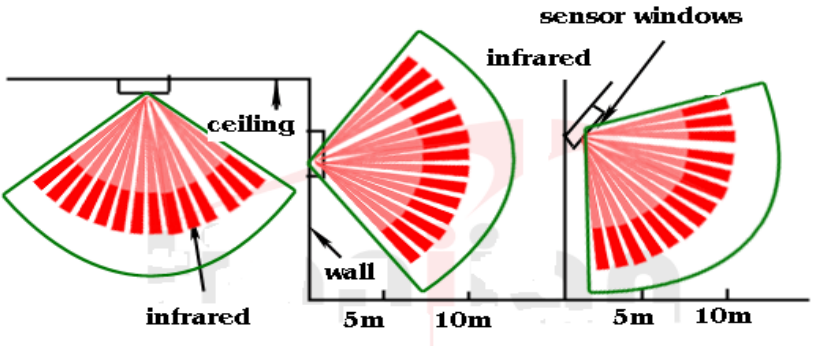
Installation: attach the larger half to the floor and attach (rivet or glue) the smaller half to the scroll steel door. An alarm is triggered when the halves are separated by more than three to 5.00 cm.

Scroll Steel Door

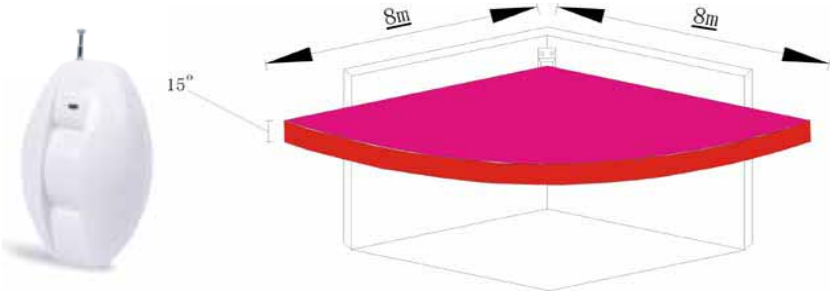
8.3 *Install the wireless PIR Motion Sensor*

The PIR sensor will detect a person since human temperature is different to ambient temperature. When triggered, the PIR will signal the Control Unit. Apply the detection area illustration below when installing.





Wireless curtain sensor, detection area illustration below:



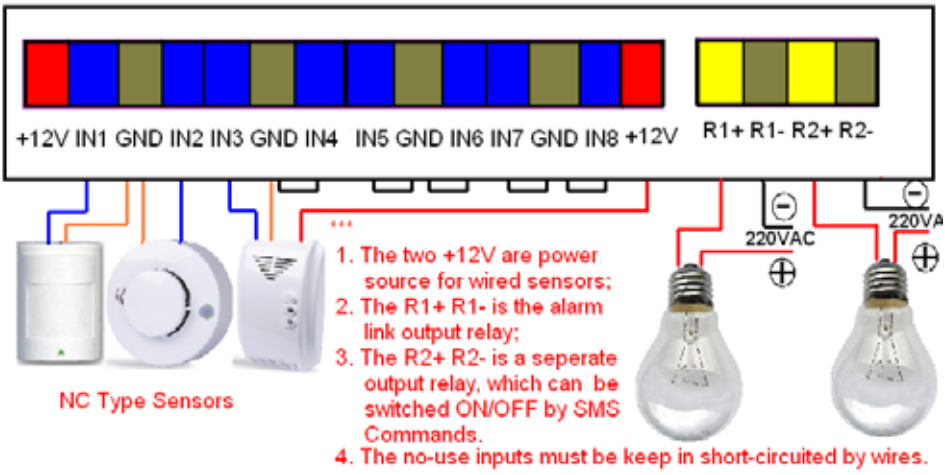
8.4 Install the Wired Sensors and Electricity equipments

Please help to see below wiring diagram, then fixed the related wired sensors, the sensors connect to the related digital inputs.

Tips!

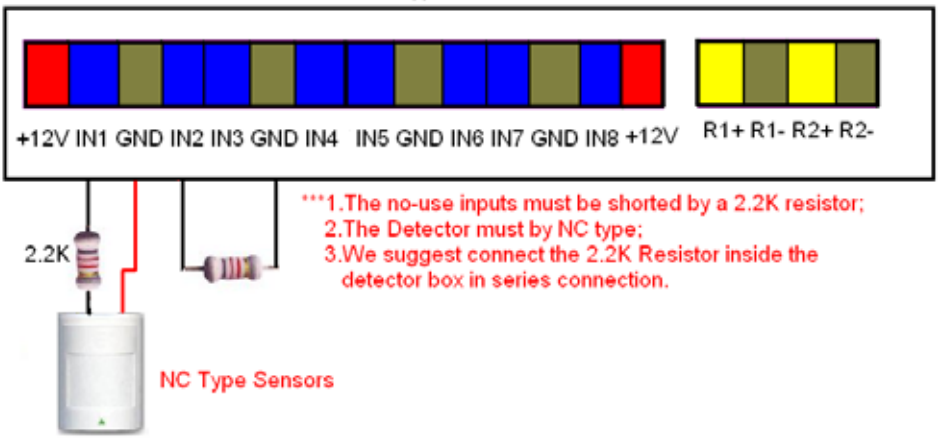
1) *Please setup the NC, NO, EOL type in the PC Programmer correctly;*
2) *If you setup the Nodes type as NC(Default),the no-use inputs must be with short-circuited by wires, and the sensor type must be NC. Please see below diagram.*
3) *If you setup the input type as EOL, then please contact a 2.2K Resistor in series with every inputs, if you don't connect the sensor to the inputs, please connect a 2.2K Resistor in series to instead of it . Moreover, only the digital detector is NC type can use in EOL mode. Please see the below diagram.*
4) *If you setup the input type as NO, then please keep the two points of the inputs by free , and the sensor type must be NO. Please see the below diagram.*
5) *The Unit built-in 240VAC@3A rated relay. Please make sure the power cord rated while you connect to equipment device. also, please make sure the power consumption is less than 250W for long time working. If you need heavy equipment, please connect an additional relay ;*
6) *The R1+ and R1- is for alarm-link output, when the system alarm, will close for 4 minutes, the rated output power is 700W. If you need heavily equipment, please connect an additional relay .*
7) *The R2+ and R2- is the relay output for SMS Command, CC is close, DD is open, EE is inquiry the status.*
8) *The +12VDC is for the Detectors, if the detectors need 12VDC power, then please contact it to the +12VDC. The 12VDC power is from external power, not from backup battery. So please note: When AC power failure, the +12VDC point will no power supply.*

NC Type Connection



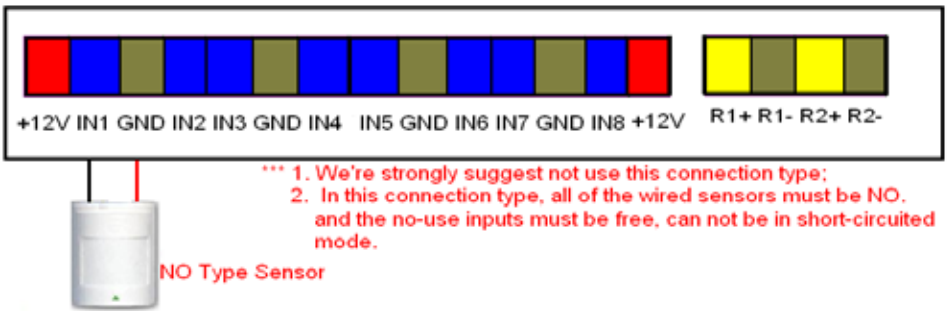
*** 1. The two +12V are power source for wired sensors;
2. The R1+ R1- is the alarm link output relay;
3. The R2+ R2- is a seperate output relay, which can be switched ON/OFF by SMS Commands.
4. The no-use inputs must be keep in short-circuited by wires.

EOL Type Connections



***1.The no-use inputs must be shorted by a 2.2K resistor;
2.The Detector must by NC type;
3.We suggest connect the 2.2K Resistor inside the detector box in series connection.

NO Type Connection



*** 1. We're strongly suggest not use this connection type;
2. In this connection type, all of the wired sensors must be NO, and the no-use inputs must be free, can not be in short-circuited mode.

8.5 *Install the Control Unit*

In order to avoid destruction of the Control Unit by intruders, please install it in a concealed location, convenient to the operator.

If applicable, ensure that an uninterruptible AC power outlet is available near the Control Unit. First connect accessories to the Control Unit then the AC adapter.

8.6 *Install Siren*

Connect the Siren to the Control Unit and fix them in appropriate locations.

Tips!

The Siren should be at least 1.5meters away from the GSM SMS Controller unit, if possible, more than 3meters is better.

Siren

Strobe Siren

9. Add Wireless Sensors to the Control Unit

Notice:

Some wireless sensors must be coded by manual as below 9.1 step; some wireless sensors needn't coded by manual, because of we will use the learning code sensor. The learning code wireless sensor you can omit the 9.1 step, can be learned to the system directly, like the PIR-100B and DM-100A.

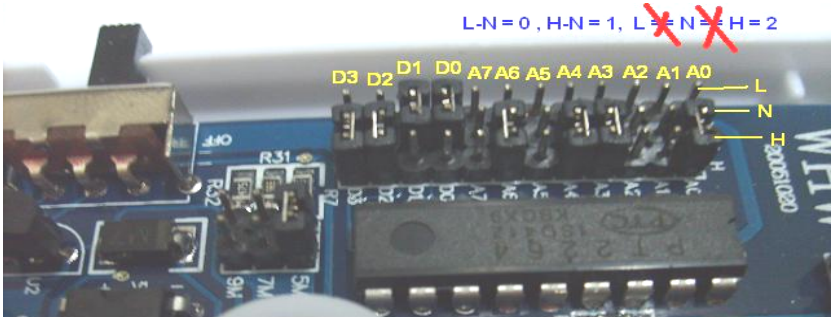
The Wireless sensors in the package box are pre-coded prior to shipping. The Max. Quantity of RF sensors is 16, if you need add more then you can set the wireless sensor with the same jumper. Add additional wireless sensors to the control units, please help to see below:

9.1 Prepare the RF Sensors of PT2262 IC Code

1) Prepare the RF sensors, Open the back cover of the Wireless sensor carefully;
2) Locate the IC boards black jumpers, labeled A0-A7 and D0-D3.
3) Configured the A0~A7 and D0~D3 different from each wireless

sensors(Includes wireless door sensor, wireless smoke sensor, wireless gas leakage sensor, wireless pir motion sensor and so on). If configured the A0~A7 and D0~D3 are the same, the system will treat them as the same one sensor.

4) Also, please check the Resistors value is 3.3M Ohm, there're 3 Jumpers, 1.5M,3.3M, and 4.7M. if you select incorrect value, the wireless distance usually very short or can not learn to the alarm panel.



9.2 Enter the RF Sensor Adding Menu.(See *6.2.2.1 Add/Del RF Parts*)

Select the Zone number, press Ok, finished it then press OK to select the Normal Type Or Stay Type, then following the instruction: **1.Turn On the Device**, means trigger the RF sensor, the system will show a code, then **press Enter Key** on the Keyboard. The system will ask you repeat the operation, so please trigger RF sensor again, when you see the Code, then press the Enter Button on the Keyboard, the system will display Saved OK. It means the wireless sensor added to the system. Repeat this operation to add other wireless sensors.

Notice:

a) One time can add only 1 wireless sensor;

b) The Name of the RF sensor can be modified by SMS commands. Please see chapter 6.3.

9.3 Add Remote Controls to the Control unit:

Because of both of the S110 and its remote controls are with learning code, you can add the remote control to the S110 directly following the 6.2.2.1 Add/Del RF Parts

a) Enter the Add/Del RF Parts menu;

b) *Select **2. Edit Remote Ctrl***, then press **Enter** button,

c) then following the instruction: **1.Turn On the Device**, means trigger the Remote Control, the system will show a code, then **press Enter Key** on the Keyboard. The system will ask you repeat the operation, so please trigger Remote Control again, when you see the Code, then press the Enter Button on the Keyboard, the system will display Saved OK. It means the Remote Control added to the system. Repeat this operation to add other remote controls.

Notice:

1) VVVV means this serial position saved one remote control already; you can learn a new remote control to replace it.

9.4 Delete all wireless sensors and remote controls.

Go back to the menu, then select the Remove All, select it then the system will alert *Are You Sure* → Press Enter to remove all the RF Parts of the system.

10. Technical specifications of Control Unit

Rated Voltage: 9~12VDC 2A Standby current: 30-40mA

Siren Output Voltage: 12VDC

Working temperature: -10℃～+60℃; Storage temperature:-20℃～+60℃

Relative humidity: 10-90%, No condensation

Work frequency: 900/1800 MHz or 850/900/1800/1900MHz

Communication protocol: GSM PHASE 2/2+ (include data service)

Wireless sensor receiving frequency: 433.92 MHz

Wireless sensor permission quantity: 16Pcs

Wired Zones: 8

Remote Control permission quantity: 5Pcs

Effective distance wireless of remote control: 100 m

Battery: Built-in lithium-ion battery: 1000mAh@3.7V

Standby time Approx.24hours (depending on the network condition)

Size: 180mmX125mmX30mm (LXWXH); Net Weight: 0.36Kg

11. Important information

1) Please read the User Manual carefully before you install the Control Unit and set the Control Unit.
2) Do not install the system in close vicinity with objects that generate strong interference, such as TV set and computer.
3) Install the system in a hidden place.
4) Avoid getting water into the Control Unit.
5) Have a secure connection to the main power supply.
6) This product was designed for the indoor use.
7) Opening the control unit cover will avoid the warranty.
8) More information will be available of the S110, we will not inform you again after we upgraded, please check with your dealers.

12. Maintenance

1) If the Control Unit works, while the remote control and other sensors fail, please check and change the battery.
2) If the remote control works, but the Control Unit fails to send SMS texts, switch the power of Control Unit off and switch it on after one minute . Test this system after another minute, or check the settings are correct and the GSM Signals are strong enough.
3) If the Control Unit can run and sensors work, but cannot send SMS texts, please change SIM Card to check it.
4) If the problem cannot be solved, please contact the distributor or manufacturer.

13. Warranty

1) This system is warranted to be free of defects in material and workmanship for one year from the date of purchase.
2) This warranty does not extend to any defect, malfunction or failure caused by abuse or misuse by the Operating Instructions. In no event shall the manufacturer be liable for any alarm system altered by

purchasers.

14.Trouble Shooting Guide

PROBLEM	CAUSE	POSSIBLE SOLUTION
GSM Module initialization failed	1) Backup battery with low voltage;GSM Module connection loose in transportation; 2) GSM Signal is too weak.	1) Please contact the AC Power; 2) Please help to take the panel to a mobile phone repairmen store, and then ask the engineer to check the GSM Module socket and the GSM Module connection; 3) Please change another position to install the alarm panel.
Automatically Restart	1) Backup battery with low voltage.	1) When the backup battery voltage is lower than 3.7V, the panel will alert by buzzer sounds. Please help to contact the AC Power.
Wireless Sensor transmission short	1) Wireless sensor with low voltage; 2) Wireless sensor used PT2262 IC, and incorrect Value; 3) Haven't pull out wireless antenna; 4) Electromagnetic interference; 5) The wireless receiver in the panel with problem.	1) Please replace the battery of the wireless sensor, usually once /year; 2) Please correct the resistor value to 3.3M Ohm of the PT2262 Wireless sensor; 3) Please pull out the wireless sensor antenna; 4) Please install the wireless sensors or alarm panel away the electric equipments; 5) Please contact your distributors or manufacturer to replace it.
False Alarm	1) PIR Motion sensor installation incorrect; 2) Used 24H zones or SOS Zones or Watchdog zone.	1) Please see the PIR Motion sensor installation user manual carefully; 2) Please check if any sensor assigned to these special zones and made incorrect activated;

	3) NC/NO/EOL is incorrect.	3) Please check the detector NC/NO type and NC/NO/EOL Correctly, and you're sure connect a 2.2K Resistor in series in the un-use input ports.
Alarm without SMS/ Alarm without Dial/ No action after send SMS command	1) GSM Operator communication protocol; 2) Haven't setup SMS Alert/Auto dial Numbers. 3) Caps Lock letters in the SMS Commands.	1) Please setup the SMS Alert Numbers; 2) Please help to see Page 15, the sample of setup the telephone numbers; 3) Please check the commands with CAPS LOCK and correct format. 4) Also, please help to change another GSM Operator SIMCard to test it.

The End!

Any questions please help to contact us feel free.

Email Us: Sales@Kingpigeon.com.cn

Http://www.GSMalarmsystem.com

Http://www.KingPigeon.com.cn